

Storm Data and Unusual Weather Phenomena - July 2008

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LAKE MICHIGAN				
WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 38.5 E CAROL BEACH [42.58, -87.07]				
	07/02/08 14:33 CST	0		Marine Thunderstorm Wind (MG 34 kt)
	07/02/08 14:33 CST	0		Source: Buoy
WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 1.3 NE RACINE [42.73, -87.78]				
	07/02/08 17:15 CST	0		Marine Thunderstorm Wind (MG 51 kt)
	07/02/08 17:15 CST	0		Source: Mesonet
NORTH PT LT TO WIND PT WI COUNTY --- 1.0 ESE CUDAHY [42.94, -87.83]				
	07/02/08 17:40 CST	0		Marine Thunderstorm Wind (EG 37 kt)
	07/02/08 17:40 CST	0		Source: Public
Clusters or short, bowing line segments of thunderstorms that moved over the waters of Lake Michigan resulted in scattered reports of powerful downburst winds up to 51 knots. The storms developed in a pre-frontal convergence zone ahead of a cold front. Air temperatures were in the lower to middle 80s with surface dewpoints in the upper 60s to lower 70s. CAPE values were 1500 to 2000.				
NORTH PT LT TO WIND PT WI COUNTY --- 1.0 ESE CUDAHY [42.94, -87.83]				
	07/07/08 08:07 CST	0		Marine Thunderstorm Wind (EG 44 kt)
	07/07/08 08:07 CST	0		Source: Public
A cluster of storms moved east through Waukesha and Milwaukee Counties out over the waters of Lake Michigan. Scattered reports of powerful downburst winds were received. The storms were associated with a short-wave trough at 500 MB moving east through Wisconsin, with a 30 knot low-level jet at 850 MB. Surface temperatures were in the lower to middle 70s with surface dewpoints around 70.				
NORTH PT LT TO WIND PT WI COUNTY --- 1.0 ESE CUDAHY [42.94, -87.83]				
	07/10/08 18:08 CST	0		Marine Thunderstorm Wind (EG 35 kt)
	07/10/08 18:08 CST	0		Source: Public
SHEBOYGAN TO PT WASHINGTON WI COUNTY --- 1.4 E SHEBOYGAN [43.75, -87.69]				
	07/10/08 19:20 CST	0		Marine Thunderstorm Wind (MG 37 kt)
	07/10/08 19:20 CST	0		Source: C-MAN Station
Several clusters or short bowing line segments of thunderstorms moved west to east over the waters of Lake Michigan during the late afternoon and evening hours of July 10th. The storms produced powerful downburst winds. Surface temperatures in the 80s and surface dewpoints in the 60s resulted in CAPE values of 1500 to 2000 while a vorticity maxima at 500 MB moved across Wisconsin and Lake Michigan.				
SHEBOYGAN TO PT WASHINGTON WI COUNTY --- 1.4 E SHEBOYGAN [43.75, -87.69]				
	07/12/08 02:08 CST	0		Marine Thunderstorm Wind (MG 36 kt)
	07/12/08 02:08 CST	0		Source: C-MAN Station
SHEBOYGAN TO PT WASHINGTON WI COUNTY --- 2.7 E OOSTBURG [43.62, -87.75]				
	07/12/08 02:25 CST	0		Marine Thunderstorm Wind (EG 39 kt)
	07/12/08 02:25 CST	0		Source: Public
PT WASHINGTON TO NORTH PT LT WI COUNTY --- 4.6 SSE GRAFTON [43.26, -87.90]				
	07/12/08 02:35 CST	0		Marine Thunderstorm Wind (EG 45 kt)
	07/12/08 02:35 CST	0		Source: Public
PT WASHINGTON TO NORTH PT LT WI COUNTY --- 3.3 E NORTH POINT LTHOUSE [43.07, -87.87]				
	07/12/08 02:50 CST	0		Marine Thunderstorm Wind (EG 34 kt)
	07/12/08 02:50 CST	0		Source: Public
A line of strong thunderstorms moved from southern Wisconsin out over the waters of Lake Michigan during the early morning hours of July 12th. The storms produced wind gusts up to 45 knots.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
SHEBOYGAN TO PT WASHINGTON WI COUNTY --- 1.4 E SHEBOYGAN [43.75, -87.69]	07/16/08 14:59 CST		0	Marine Thunderstorm Wind (MG 43 kt)
	07/16/08 14:59 CST		0	Source: C-MAN Station
SHEBOYGAN TO PT WASHINGTON WI COUNTY --- 1.4 E SHEBOYGAN [43.75, -87.69]	07/16/08 15:15 CST		0	Marine Thunderstorm Wind (MG 60 kt)
	07/16/08 15:15 CST		0	Source: C-MAN Station
NORTH PT LT TO WIND PT WI COUNTY --- 1.0 ESE CUDAHY [42.94, -87.83]	07/16/08 15:36 CST		0	Marine Thunderstorm Wind (EG 40 kt)
	07/16/08 15:36 CST		0	Source: Public
NORTH PT LT TO WIND PT WI COUNTY --- 3.5 SE NORTH POINT LTHOUSE [43.05, -87.88]	07/16/08 15:40 CST		0	Marine Thunderstorm Wind (MG 37 kt)
	07/16/08 15:40 CST		0	Source: Other Federal Agency
WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 3.0 ESE WIND POINT [42.76, -87.78]	07/16/08 16:00 CST		0	Marine Thunderstorm Wind (EG 41 kt)
	07/16/08 16:00 CST		0	Source: Public
WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 1.2 ENE KENOSHA [42.59, -87.81]	07/16/08 16:59 CST		0	Marine Thunderstorm Wind (MG 36 kt)
	07/16/08 16:59 CST		0	Source: Official NWS Observations
WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 38.3 E CAROL BEACH [42.57, -87.07]	07/16/08 16:59 CST		0	Marine Thunderstorm Wind (MG 38 kt)
	07/16/08 16:59 CST		0	Source: Buoy
WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 38.4 E CAROL BEACH [42.56, -87.07]	07/16/08 16:59 CST		0	Marine Thunderstorm Wind (MG 38 kt)
	07/16/08 16:59 CST		0	Source: Buoy

A convective thunderstorm complex moved east/southeast across southern Wisconsin and over the waters of Lake Michigan. The complex generated a line of strong to severe storms. Powerful thunderstorm winds gusts to 60 knots were produced by the storms. Surface dewpoints were in the lower to mid 70s, and CAPE values were 3000 to 4000. Maximum afternoon temperatures were in the 85 to 90 range.

WISCONSIN, Southeast

SAUK COUNTY --- 4.0 SE LAKE DELTON [43.54, -89.72]	07/02/08 08:13 CST		0	Hail (0.75 in)
	07/02/08 08:13 CST		0	Source: Public
IOWA COUNTY --- 4.0 SW MINERAL PT [42.81, -90.24]	07/02/08 08:52 CST		0	Hail (0.88 in)
	07/02/08 08:52 CST		0	Source: Law Enforcement
OZAUKEE COUNTY --- BELGIUM [43.50, -87.85]	07/02/08 09:10 CST		0	Hail (0.75 in)
	07/02/08 09:10 CST		0	Source: Post Office
FOND DU LAC COUNTY --- 4.0 SW ROSENDALE [43.76, -88.74]	07/02/08 09:15 CST		0	Thunderstorm Wind (EG 56 kt)
	07/02/08 09:15 CST		0	Source: Post Office

Powerful thunderstorm winds toppled several large trees.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
DANE COUNTY --- 2.0 E MT HOREB [43.00, -89.69]				
	07/02/08 09:22 CST		0	Hail (0.75 in)
	07/02/08 09:22 CST		0	Source: Public
JEFFERSON COUNTY --- JOHNSON CREEK [43.08, -88.77], 5.0 E JOHNSON CREEK [43.08, -88.67]				
	07/02/08 10:19 CST		0	Hail (1.00 in)
	07/02/08 10:25 CST		0	Source: Trained Spotter
WAUKESHA COUNTY --- HARTLAND [43.10, -88.35], PEWAUKEE CAPITAL ARP [43.08, -88.18]				
	07/02/08 10:40 CST		10K	Thunderstorm Wind (EG 56 kt)
	07/02/08 10:45 CST		0	Source: Law Enforcement
Powerful thunderstorm winds toppled large trees and broken branches pulled some power-lines down.				
MILWAUKEE COUNTY --- 1.0 E TIMMERMAN ARPT [43.12, -88.01]				
	07/02/08 11:00 CST		10K	Thunderstorm Wind (EG 56 kt)
	07/02/08 11:00 CST		0	Source: Law Enforcement
Powerful thunderstorm winds toppled a few large trees, and broken branches pulled down some power-lines.				
RACINE COUNTY --- 1.0 N DOWNTOWN RACINE [42.73, -87.80], 1.0 SW DOWNTOWN RACINE [42.71, -87.81]				
	07/02/08 17:15 CST		0	Thunderstorm Wind (MG 51 kt)
	07/02/08 17:20 CST		0	Source: Mesonet
Powerful thunderstorm winds knocked large tree branches out of trees and uprooted a couple trees.				
RACINE COUNTY --- DOWNTOWN RACINE [42.72, -87.80]				
	07/02/08 17:15 CST		0	Hail (0.75 in)
	07/02/08 17:15 CST		0	Source: Public
Clusters or short, bowing segments of lines of storms resulted in scattered reports of large hail up to 1 inch in diameter and powerful downburst winds to about 56 knots (65 mph) that toppled trees. The storms developed in a pre-frontal convergence zone ahead of a cold front. Air temperatures were in the lower to middle 80s with surface dewpoints in the upper 60s to lower 70s. CAPE values were 1500 to 2000.				
WAUKESHA COUNTY --- 2.0 NE DOWNTOWN WAUKESHA [43.04, -88.19], BROOKFIELD [43.07, -88.15]				
	07/07/08 07:45 CST		0	Thunderstorm Wind (EG 50 kt)
	07/07/08 07:50 CST		0	Source: Trained Spotter
Powerful thunderstorm winds knocked large branches out of several trees.				
MILWAUKEE COUNTY --- 5.0 NW DOWNTOWN MILWAUKEE [43.08, -88.04], FRANKLIN [42.87, -88.08]				
	07/07/08 09:00 CST		10K	Thunderstorm Wind (EG 56 kt)
	07/07/08 09:05 CST		0	Source: Trained Spotter
Powerful thunderstorm winds pushed over several large trees and knocked branches out of some trees. One tree fell on a home in Franklin (Milwaukee Co.) and resulted in minor damage.				
A cluster of storms developed over Jefferson County and moved east through Waukesha and Milwaukee Counties. Scattered reports of powerful downburst winds were received. The storms were associated with a short-wave trough at 500 MB moving east through Wisconsin, with a 30 knot low-level jet at 850 MB. Surface temperatures were in the lower to middle 70s with surface dewpoints around 70.				
RACINE COUNTY --- RAYMOND [42.80, -88.02]				
	07/07/08 08:05 CST		3K	Lightning
	07/07/08 08:05 CST		0	Source: Newspaper
Lightning struck a home and the resultant fire damaged the roof and TV antenna.				
SAUK COUNTY --- 4.0 W LA VALLE [43.58, -90.21]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/07/08 16:25 CST		10K	Thunderstorm Wind (EG 65 kt)
	07/07/08 16:25 CST		0	Source: Trained Spotter

Powerful thunderstorm wind gusts toppled several large trees and broke branches that brought down some power-lines.

SAUK COUNTY --- REEDSBURG [43.53, -90.00]

07/07/08 17:00 CST		5K	Thunderstorm Wind (EG 56 kt)
07/07/08 17:00 CST		0	Source: Trained Spotter

Powerful thunderstorm wind gusts toppled several large trees and broke branches that brought down some power-lines.

GREEN LAKE COUNTY --- GREEN LAKE [43.83, -88.95]

07/07/08 18:00 CST		10K	Thunderstorm Wind (EG 56 kt)
07/07/08 18:00 CST		0	Source: Newspaper

Powerful thunderstorm wind gusts toppled several large trees and broke branches that brought down some power-lines.

GREEN LAKE COUNTY --- 3.6 SE MANCHESTER [43.64, -88.99], 3.9 SE MANCHESTER [43.64, -88.97]

07/07/08 18:04 CST		30K	Tornado (EF1, L: 1.14 mi , W: 75 yd)
07/07/08 18:06 CST		10K	Source: Emergency Manager

A brief, weak tornado spun up in a rural area southeast of Manchester, and uprooted or damage trees, pulled a roof off a pole shed, damaged the overhang and roofing of a residential home's garage, and damaged a part a small part of another home's roof. This tornado spun up just southeast of Lake Maria, and moved east-northeast across CTH O about 1/2 mile north of the county line, and then dissipated in open fields. Some corn crop was also damaged. The starting and ending lat/long pairs of numbers were: 43.63654/-88.98887 and 43.64454/-88.96897. DI#2 (FR12), DOD4. Winds were estimated at 97 mph, and the average path width was about 40 yards.

DODGE COUNTY --- 4.7 N FOX LAKE [43.64, -88.90], 2.0 S WAUPUN [43.60, -88.73]

07/07/08 18:10 CST		20K	Thunderstorm Wind (EG 56 kt)
07/07/08 18:13 CST		0	Source: Law Enforcement

Powerful thunderstorm wind gusts toppled several large trees and broke branches that brought down some power-lines.

LAFAYETTE COUNTY --- 3.0 NW BELMONT [42.76, -90.37]

07/07/08 18:47 CST		0	Thunderstorm Wind (EG 50 kt)
07/07/08 18:47 CST		0	Source: Unknown

Powerful thunderstorm wind gusts broke large branches.

JEFFERSON COUNTY --- 1.7 ENE GRELLTON [43.14, -88.75]

07/07/08 19:25 CST	1	0	Lightning
07/07/08 19:25 CST		0	Source: Newspaper

Lightning struck and killed a boy watching the storms outside. He lived on Ebenezer Road in the Civil Town of Watertown.

Direct Fatalities: M16OU

JEFFERSON COUNTY --- 2.3 S WATERTOWN AIRPORT [43.14, -88.72]

07/07/08 19:30 CST		30K	Lightning
07/07/08 19:30 CST	1	0	Source: Law Enforcement

Lighting struck and injured a 16-year boy. He was transfered to a hospital for medical treatment.

WAUKESHA COUNTY --- 3.0 W DOWNTOWN WAUKESHA [43.02, -88.28], 0.5 NE STONEBANK [43.16, -88.41]

07/07/08 19:40 CST		15K	Thunderstorm Wind (EG 56 kt)
07/07/08 19:41 CST		0	Source: Trained Spotter

Powerful thunderstorm wind gusts toppled several large trees and broke branches that brought down some power-lines.

ROCK COUNTY --- DOWNTOWN JANESVILLE [42.68, -89.02]

07/07/08 21:00 CST		25K	Thunderstorm Wind (EG 56 kt)
07/07/08 21:00 CST		0	Source: Law Enforcement

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Powerful thunderstorm wind gusts toppled several large trees and broke branches that brought down some power-lines. Some light posts were broken on the north and northeast sides of Janesville.				

DANE COUNTY --- MONONA [43.07, -89.32]

07/07/08 21:15 CST	40K	Thunderstorm Wind (EG 65 kt)
07/07/08 21:15 CST	0	Source: Newspaper

Powerful thunderstorm wind gusts toppled several large trees and broke branches that brought down some power-lines. One home had its living room and bedroom windows and wall damaged by a toppled large tree.

ROCK COUNTY --- EVANSVILLE [42.78, -89.30]

07/07/08 21:51 CST	10K	Thunderstorm Wind (EG 56 kt)
07/07/08 21:51 CST	0	Source: Law Enforcement

Powerful thunderstorm wind gusts toppled several large trees and broke branches that brought down some power-lines.

ROCK COUNTY --- BELOIT [42.52, -89.03]

07/07/08 22:21 CST	10K	Thunderstorm Wind (EG 50 kt)
07/07/08 22:21 CST	0	Source: Law Enforcement

Powerful thunderstorm wind gusts toppled several large trees and broke branches that brought down some power-lines.

This episode was the 2nd round of severe storms over southern Wisconsin on July 7th. A line of storms moved west to east across southern Wisconsin during the evening hours. Powerful thunderstorm downburst winds were generated which knocked down trees and power-lines that left about 23,000 customers without electrical power. Additionally, one isolated tornado spun up on the leading edge of the line of storms in southern Green Lake County, where a microburst pushed ahead and enhanced local vorticity/rotation in a storm cell. The storms were associated with a short-wave trough at 500 MB moving east through Wisconsin, with a 30 knot low-level jet at 850 MB. Surface temperatures were in the 80s and surface dewpoints were around 70.

OZAUKEE COUNTY --- 1.0 NNW CEDARBURG [43.29, -87.99], 1.0 N CEDARBURG [43.29, -87.98]

07/10/08 12:20 CST	0	Hail (0.75 in)
07/10/08 12:30 CST	0	Source: CoCoRaHS

OZAUKEE COUNTY --- 1.0 SW SAUKVILLE [43.37, -87.94]

07/10/08 12:27 CST	0	Thunderstorm Wind (EG 50 kt)
07/10/08 12:27 CST	0	Source: Unknown

Tree down.

SAUK COUNTY --- LA VALLE [43.58, -90.13], BARABOO [43.47, -89.73]

07/10/08 15:30 CST	20K	Thunderstorm Wind (EG 56 kt)
07/10/08 15:55 CST	0	Source: Law Enforcement

Powerful thunderstorm wind gusts toppled large trees and broke branches that brought down some power-lines.

COLUMBIA COUNTY --- 5.0 SW PORTAGE [43.50, -89.52]

07/10/08 16:07 CST	10K	Thunderstorm Wind (EG 56 kt)
07/10/08 16:07 CST	0	Source: Law Enforcement

Powerful thunderstorm wind gusts toppled several large trees and broke branches that brought down some power-lines.

MARQUETTE COUNTY --- WESTFIELD [43.88, -89.48], 6.0 SE GLENOAK [43.69, -89.25]

07/10/08 16:12 CST	40K	Thunderstorm Wind (EG 56 kt)
07/10/08 16:20 CST	0	Source: Law Enforcement

Powerful thunderstorm wind gusts toppled large trees and broke branches that brought down some power-lines in locations scattered across the county. Three trailer homes about 6 miles east-northeast of Montello were damaged as two large trees came down in the winds.

DANE COUNTY --- CROSS PLAINS [43.12, -89.63]

07/10/08 16:18 CST	10K	Thunderstorm Wind (EG 56 kt)
07/10/08 16:18 CST	0	Source: Law Enforcement

Powerful thunderstorm wind gusts toppled several large trees and broke branches that brought down some power-lines.

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GREEN LAKE COUNTY --- 1.0 SW PRINCETON [43.84, -89.13], GREEN LAKE [43.83, -88.95]				
	07/10/08 16:32 CST		20K	Thunderstorm Wind (EG 65 kt)
	07/10/08 16:42 CST		0	Source: Law Enforcement
Powerful thunderstorm wind gusts toppled large trees and broke branches that brought down some power-lines. One tree fell onto a trailer near Princeton.				
GREEN LAKE COUNTY --- 0.9 W DALTON [43.65, -89.22], 0.4 NE DALTON [43.65, -89.19]				
	07/10/08 16:33 CST		0.15M	Tornado (EF1, L: 1.15 mi , W: 50 yd)
	07/10/08 16:35 CST		0	Source: Emergency Manager
A weak tornado spun up about 1/2 mile southwest of Downtown Dalton near a creek and proceeded to track east across STH 44 just northeast of the intersection of STH 44 and South Main Steet, and ultimately dissipated about 1/2 mile east-southeast of Downtown Dalton just southeast of the intersection of Fountain Lane and Belle Fountain Creek. It took the roof off of a lumberyard pole shed, took part of a roof off an office building, uprooted trees, and brought down some power-lines. The starting and ending lat/long pairs of numbers are 43.65243/-89.21794 and 43.65347/-89.19503. DI#1 (SBO), DOD 5. The winds were estimated at 93 mph. The average path width was about 50 yards.				
DANE COUNTY --- MC FARLAND [43.02, -89.28]				
	07/10/08 16:38 CST		0.15M	Thunderstorm Wind (EG 78 kt)
	07/10/08 16:38 CST		0	Source: Law Enforcement
Powerful thunderstorm wind gusts toppled large trees and broke branches that brought down some power-lines. In McFarland, a house was blown down, and tree debris damaged a restaurant .				
DODGE COUNTY --- BEAVER DAM [43.47, -88.83]				
	07/10/08 16:56 CST		10K	Thunderstorm Wind (EG 56 kt)
	07/10/08 16:56 CST		0	Source: Law Enforcement
Powerful thunderstorm wind gusts toppled several large trees and broke branches that brought down some power-lines.				
GREEN COUNTY --- 2.0 S ALBANY [42.67, -89.43]				
	07/10/08 16:58 CST		5K	Thunderstorm Wind (EG 56 kt)
	07/10/08 16:58 CST		0	Source: Law Enforcement
Powerful thunderstorm wind gusts toppled several large trees and broke branches that brought down some power-lines.				
DODGE COUNTY --- 2.8 WSW WAUPUN ARPT [43.61, -88.82], 1.8 WSW WAUPUN ARPT [43.61, -88.80]				
	07/10/08 17:00 CST		20K	Tornado (EF1, L: 1.02 mi , W: 50 yd)
	07/10/08 17:02 CST		0	Source: Law Enforcement
This weak tornado uprooted 9 large oak trees and damage a barn roof. It spun up just northeast of the intersection of CTH W and CTH F and moved east-northeast across STH 68 near a bend in STH 68, and dissipated just southeast of the intersection of STH 68 and Buckhorn Road. The starting and end lat/long pairs of numbers are: 43.60684/-88.82342 and 43.61147/-88.80410. DI#27 (TH), DOD3. The winds were estimated at 94 mph. The average path width was about 30 yards.				
FOND DU LAC COUNTY --- BRANDON [43.73, -88.77]				
	07/10/08 17:00 CST		5K	Thunderstorm Wind (EG 56 kt)
	07/10/08 17:00 CST		0	Source: Law Enforcement
Powerful thunderstorm wind gusts toppled several large trees and broke branches that brought down some power-lines.				
JEFFERSON COUNTY --- JOHNSON CREEK [43.08, -88.77], 1.0 NW JEFFERSON [43.01, -88.81]				
	07/10/08 17:00 CST		20K	Thunderstorm Wind (EG 56 kt)
	07/10/08 17:08 CST		0	Source: Public
Powerful thunderstorm wind gusts toppled several large trees and broke branches that brought down some power-lines. Five tents were damaged at the Jefferson County Fairgrounds.				
ROCK COUNTY --- 2.0 N DOWNTOWN JANESVILLE [42.71, -89.02], 1.0 NE DOWNTOWN JANESVILLE [42.69, -89.01]				
	07/10/08 17:09 CST		10K	Thunderstorm Wind (EG 65 kt)
	07/10/08 17:10 CST		0	Source: Public
Powerful thunderstorm wind gusts toppled several large trees and broke branches that brought down some power-lines.				

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WALWORTH COUNTY --- WHITEWATER [42.83, -88.73]				
	07/10/08 17:17 CST		5K	Thunderstorm Wind (EG 56 kt)
	07/10/08 17:17 CST		0	Source: Law Enforcement
Powerful thunderstorm wind gusts toppled several large trees and broke branches that brought down some power-lines.				
JEFFERSON COUNTY --- 3.8 SSE SULLIVAN [42.97, -88.55]				
	07/10/08 17:22 CST		0	Thunderstorm Wind (MG 50 kt)
	07/10/08 17:22 CST		0	Source: NWS Employee
Powerful thunderstorm wind gust measured at NWS office.				
WALWORTH COUNTY --- DARIEN [42.60, -88.70], WILLIAMS BAY [42.58, -88.53]				
	07/10/08 17:25 CST		0.10M	Thunderstorm Wind (EG 65 kt)
	07/10/08 17:30 CST		0	Source: Law Enforcement
Powerful thunderstorm wind gusts toppled several large trees and broke branches that brought down some power-lines. At least 6 homes sustained damage due to tree debris in the Walworth to Williams Bay area.				
WAUKESHA COUNTY --- EAGLE [42.88, -88.47], MUKWONAGO [42.87, -88.33]				
	07/10/08 17:32 CST		10K	Thunderstorm Wind (EG 56 kt)
	07/10/08 17:32 CST		0	Source: Law Enforcement
Powerful thunderstorm wind gusts toppled several large trees and broke branches that brought down some power-lines.				
RACINE COUNTY --- 1.5 WNW TICHIGAN [42.84, -88.25]				
	07/10/08 17:44 CST		5K	Thunderstorm Wind (EG 56 kt)
	07/10/08 17:44 CST		0	Source: Law Enforcement
Powerful thunderstorm wind gusts toppled several large trees and broke branches that brought down some power-lines.				
LAFAYETTE COUNTY --- 2.0 NE BENTON [42.59, -90.35], 2.0 SE BENTON [42.55, -90.35], 2.0 SW BENTON [42.55, -90.41], 2.0 NW BENTON [42.59, -90.41]				
	07/10/08 18:00 CST		10K	Flash Flood (due to Heavy Rain)
	07/10/08 19:00 CST		0	Source: Law Enforcement
Heavy rains of 2 to 3 inches within 1 to 1.5 hours resulted in flash flooding in and around Benton as water depths reached 3 feet on some roads. Some gravel shoulder washouts were noted.				
Two rounds of severe weather affected south-central and southeast Wisconsin on July 10th. An initial cluster of storms north of the Milwaukee area in Ozaukee County pulsed to severe limits and generated large hail up to 3/4 inch in diameter during the early afternoon hours. A second round of severe weather was associated with several clusters or short bowing segments of lines of storms that moved west to east across southern Wisconsin during the late afternoon and evening hours. Surface temperatures in the 80s and surface dewpoints in the 60s resulted in CAPE values of 1500 to 2000 while a vorticity maxima at 500 MB moved across Wisconsin. Veering winds allowed for the development of rotating updrafts in a couple cells that generated two weak tornadoes. Otherwise, the severe weather type was powerful downburst winds.				
WAUKESHA COUNTY --- 3.0 S OCONOMOWOC [43.08, -88.48]				
	07/10/08 23:45 CST		50K	Lightning
	07/10/08 23:45 CST		0	Source: Newspaper
Lightning struck a home and started a fire that damaged the structure.				
WAUKESHA COUNTY --- 3.4 SSE OCONOMOWOC [43.07, -88.45]				
	07/10/08 23:55 CST		0.10M	Lightning
	07/10/08 23:55 CST		0	Source: Newspaper
Lightning struck a home and started a fire that extensively damaged the structure.				
DANE COUNTY --- 4.0 W DOWNTOWN MADISON [43.07, -89.50]				
	07/11/08 00:30 CST		20K	Lightning
	07/11/08 00:30 CST		0	Source: Newspaper

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Lightning struck a home and started a fire that resulted in roof damage.				

DANE COUNTY --- 2.0 W DOWNTOWN MADISON [43.07, -89.46], MADISON TRUAX AIRPORT [43.14, -89.33], MONONA [43.07, -89.32], 3.0 S DOWNTOWN MADISON [43.03, -89.42]

07/11/08 01:00 CST	10K	Flash Flood (due to Heavy Rain)
07/11/08 02:00 CST	0	Source: Law Enforcement

A series of thunderstorms dumped heavy rains of 1 to 3 inches within an hour or two that generated flash flooding. May urban roads were flooded with fast-flowing water of 1 to 2 feet in depth. Basement flooding was noted with damage to contents.

SAUK COUNTY --- LA VALLE [43.58, -90.13], 3.0 N BARABOO [43.51, -89.73], 3.0 S BARABOO [43.43, -89.73], 2.0 SW LOGANVILLE [43.41, -90.06]

07/11/08 02:00 CST	25K	Flash Flood (due to Heavy Rain)
07/11/08 05:30 CST	0	Source: Law Enforcement

A series of thunderstorms dumped 2 to 4 inches of rain in Sauk County that resulted in flash flooding. Several county roads were closed due to fast-flowing water depths of 1 to 2 feet. Basement flooding was noted, and there was some shoulder gravel washouts. A semi-tractor trailer stalled in deep water on a road near Loganville after the current pushed the truck off the road, and the driver had to be rescued.

DANE COUNTY --- 3.0 WSW DOWNTOWN MADISON [43.05, -89.47], 3.0 WSW MADISON TRUAX AIRPORT [43.12, -89.39], 2.0 E MONONA [43.07, -89.28], 2.0 E MC FARLAND [43.02, -89.24]

07/11/08 03:45 CST	30K	Flash Flood (due to Heavy Rain)
07/11/08 05:30 CST	0	Source: Unknown

A series of thunderstorms dumped heavy rains that resulted in fast-flowing water depths of 1 to 3 feet on urban streets. One person in Madison had to be rescued when their car stalled in 3 feet of water. Several roads were closed due to high water levels. Basement flooding was noted with damage to contents.

A series of thunderstorms developed into clusters and short lines that moved east-southeast through southern Wisconsin. Due to a moist atmosphere, heavy rains were reported overnight in the range of 1 inch to slightly over 4 inches. Due to a saturated ground, flash flooding was the result.

GREEN COUNTY --- JUDA [42.58, -89.50]

07/12/08 00:00 CST	75K	Thunderstorm Wind (EG 65 kt)
07/12/08 00:00 CST	0	Source: Law Enforcement

Powerful thunderstorm winds toppled large trees and knocked down tree branches that damaged several homes in and around Juda.

SAUK COUNTY --- SPRING GREEN [43.18, -90.07]

07/12/08 00:00 CST	20K	Lightning
07/12/08 00:00 CST	0	Source: Newspaper

Lightning struck a home that started a minor fire. There was some damage. Time is only estimated since newspaper article didn't specify the time.

ROCK COUNTY --- 4.0 N MAGNOLIA [42.78, -89.25]

07/12/08 00:15 CST	0	Thunderstorm Wind (EG 56 kt)
07/12/08 00:15 CST	0	Source: Law Enforcement

Powerful thunderstorm wind gusts toppled large trees.

GREEN LAKE COUNTY --- 5.0 NE MARKESAN [43.77, -88.91]

07/12/08 01:20 CST	0	Thunderstorm Wind (EG 56 kt)
07/12/08 01:20 CST	0	Source: Law Enforcement

Powerful thunderstorm wind gusts toppled large trees.

DODGE COUNTY --- FOX LAKE [43.57, -88.90]

07/12/08 01:25 CST	0	Thunderstorm Wind (EG 56 kt)
07/12/08 01:25 CST	0	Source: Law Enforcement

Powerful thunderstorm wind gusts toppled large trees. One road was blocked.

FOND DU LAC COUNTY --- 5.0 N WAUPUN [43.70, -88.73]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/12/08 01:27 CST		0	Thunderstorm Wind (EG 56 kt)
	07/12/08 01:27 CST		0	Source: Emergency Manager
Powerful thunderstorm wind gusts toppled large trees.				
FOND DU LAC COUNTY --- 3.0 SSW PIPE [43.88, -88.34]				
	07/12/08 01:30 CST		0	Thunderstorm Wind (EG 56 kt)
	07/12/08 01:30 CST		0	Source: Emergency Manager
Powerful thunderstorm wind gusts toppled large trees.				
WASHINGTON COUNTY --- 1.0 NW ST LAWRENCE [43.38, -88.34]				
	07/12/08 02:26 CST		0.10M	Lightning
	07/12/08 02:26 CST		0	Source: Law Enforcement
Fire struck a barn and started a fire that resulted in damage. A firefighter was injured by flying debris while fighting the fire.				
ROCK COUNTY --- 1.0 NE DOWNTOWN JANESVILLE [42.69, -89.01], 1.0 SE DOWNTOWN JANESVILLE [42.67, -89.01], 1.0 SW DOWNTOWN JANESVILLE [42.67, -89.03], 1.0 NW DOWNTOWN JANESVILLE [42.69, -89.03]				
	07/12/08 02:30 CST		30K	Flash Flood (due to Heavy Rain)
	07/12/08 04:00 CST		0	Source: Law Enforcement
A series of thunderstorms dumped 1 to 3 inches of rain across the city of Janesville. Several roads become flooded with fast-flowing water to the depth of 1 to 3 feet. Several cars stalled in the deep water and drivers had to be rescued. Some basement flooding was noted with damage to contents.				
WALWORTH COUNTY --- RICHMOND [42.72, -88.73]				
	07/12/08 02:30 CST		0	Thunderstorm Wind (EG 56 kt)
	07/12/08 02:30 CST		0	Source: Law Enforcement
Powerful thunderstorm wind gusts toppled large trees.				
WALWORTH COUNTY --- DARIEN [42.60, -88.70], SHARON [42.50, -88.73]				
	07/12/08 03:00 CST		0	Heavy Rain
	07/12/08 07:00 CST		0	Source: Law Enforcement
Heavy rains of 1 to 2 inches resulted in minor urban and small stream flooding. Stationary water depths on some roads reached a foot which resulted in the closure of STH 11 and STH 14.				
This is a test.				
MARQUETTE COUNTY --- MONTELLO [43.80, -89.32]				
	07/16/08 13:40 CST		0	Thunderstorm Wind (EG 52 kt)
	07/16/08 13:40 CST		0	Source: Law Enforcement
Powerful thunderstorm winds toppled large trees.				
GREEN LAKE COUNTY --- DALTON [43.65, -89.20], MARKESAN [43.72, -88.98]				
	07/16/08 13:45 CST		10K	Thunderstorm Wind (EG 56 kt)
	07/16/08 13:55 CST		0	Source: Law Enforcement
Powerful thunderstorm winds toppled large trees and broke branches that knocked down power-lines.				
FOND DU LAC COUNTY --- ST PETER [43.83, -88.33], 1.5 S ST CLOUD [43.80, -88.17]				
	07/16/08 13:59 CST		0	Thunderstorm Wind (MG 57 kt)
	07/16/08 14:10 CST		0	Source: Trained Spotter
Powerful thunderstorm winds toppled large trees. Gust was measured in St. Peter.				
SHEBOYGAN COUNTY --- 3.0 NW GREENBUSH [43.81, -88.12], SHEBOYGAN [43.75, -87.72]				
	07/16/08 14:12 CST		0.30M	Thunderstorm Wind (EG 70 kt)
	07/16/08 14:53 CST		0	Source: Trained Spotter

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A line of severe storms moved west to east across Sheboygan County and generated widespread powerful winds that gusted to an estimated 61 to 70 knots (70 to 80 mph). In addition, a tornado spun up north of Sheboygan Falls at 1437 CST - see the tornado event write-up for details. The ASOS unit at the Sheboygan County Airport measured a gust of 53 knots (61 mph). Thousands of trees were snapped or toppled, and many power-lines were brought down by tree debris, mostly across the northern part of the county. An 81-year-old woman in Plymouth was injured when the winds pushed a door of a store into her. She broke her arm and was hospitalized. Elsewhere in Plymouth, 2 vehicles were damaged by tree debris. North of Plymouth, 2 cabins at a camp ground were destroyed by toppled trees, and 3 other camp buildings were damaged. In Sheboygan Falls, at least 12 homes were damaged. In Kohler, a vehicle was crushed by a toppled tree. City and county 911 Communications Centers received thousands of calls within a 5 hour period. At least 14,000 homes in Sheboygan County lost electrical power.				

FOND DU LAC COUNTY --- 6.0 SSE FOND DU LAC [43.70, -88.40]

07/16/08 14:18 CST	0	Hail (0.75 in)
07/16/08 14:18 CST	0	Source: Law Enforcement

DODGE COUNTY --- BEAVER DAM [43.47, -88.83], NEOSHO [43.32, -88.52]

07/16/08 14:25 CST	20K	Thunderstorm Wind (EG 56 kt)
07/16/08 14:35 CST	0	Source: Law Enforcement

Powerful thunderstorm winds toppled many large trees in a wide path of about 10 miles, and broken tree branches brought down some power-lines. One vehicle in Beaver Dam was damaged by tree debris.

SHEBOYGAN COUNTY --- 0.5 SE (SBM)SHEBOYGAN CO AR [43.77, -87.84], 1.6 N SHEBOYGAN FALLS [43.75, -87.82]

07/16/08 14:37 CST	0.35M	Tornado (EF1, L: 1.50 mi , W: 75 yd)
07/16/08 14:40 CST	1K	Source: Public

This tornado spun up on the front side of a line of thunderstorms in association with a strong microburst that rotated around on itself. It damaged an airport hangar door, destroyed 3 barns, damaged 2 other barns, lightly damaged 3 homes, took the top 1/3 of a silo down, damaged 2 other silos, and uprooted or snapped many trees. Only some minor corn crop damage was noted. It was observed by several people. This tornado started on the east side of the Sheboygan County Airport, and moved east-southeast and eventually crossed STH 32 about midway between STH 23 and CTH O. Once it crossed STH 32 it curved sharply to a south-southeast bearing and dissipated northeast of the intersection of STH 23 and STH 32. It's starting and ending pairs of lat/long numbers were: 43.76517/-87.84273 and 43.75375/-87.81711. DI#1 (SBO), DOD6. The winds were estimated at about 95 mph. The average path width was about 30 yards.

WASHINGTON COUNTY --- KEWASKUM [43.52, -88.22], WEST BEND [43.42, -88.18]

07/16/08 14:50 CST	0	Thunderstorm Wind (EG 56 kt)
07/16/08 15:00 CST	0	Source: Law Enforcement

Powerful thunderstorm winds toppled large trees.

OZAUKEE COUNTY --- SAUKVILLE [43.38, -87.93]

07/16/08 15:09 CST	0	Thunderstorm Wind (EG 52 kt)
07/16/08 15:09 CST	0	Source: Law Enforcement

Powerful thunderstorm winds toppled large trees.

WAUKESHA COUNTY --- STONEBANK [43.15, -88.42], DELAFIELD [43.07, -88.40]

07/16/08 15:12 CST	0	Thunderstorm Wind (EG 56 kt)
07/16/08 15:22 CST	0	Source: Trained Spotter

Powerful thunderstorm winds toppled large trees.

WASHINGTON COUNTY --- SLINGER [43.33, -88.28], GERMANTOWN [43.23, -88.10]

07/16/08 15:14 CST	0	Thunderstorm Wind (EG 56 kt)
07/16/08 15:28 CST	0	Source: Trained Spotter

Powerful thunderstorm winds toppled large trees.

SAUK COUNTY --- 3.0 E LA VALLE [43.58, -90.07]

07/16/08 15:15 CST	0	Thunderstorm Wind (EG 56 kt)
07/16/08 15:15 CST	0	Source: Law Enforcement

Powerful thunderstorm winds toppled large trees.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
SAUK COUNTY --- 2.0 NW LA VALLE [43.60, -90.16], 2.0 NE REEDSBURG [43.55, -89.97], 2.0 S REEDSBURG [43.50, -90.00], 2.0 SW LA VALLE [43.56, -90.16]				
	07/16/08 15:20 CST		10K	Flash Flood (due to Heavy Rain)
	07/16/08 18:00 CST		0	Source: Trained Spotter
Heavy rains of 1 to 2 inches in an hour resulted in flash flooding at generated fast-flowing water depths of 1 to 2 feet on several roads. Additional sandbagging was noted in Reedsburg. Water was reported in some basements leading to damage of contents. Some roads were closed.				
SAUK COUNTY --- REEDSBURG [43.53, -90.00]				
	07/16/08 15:20 CST		0	Hail (0.75 in)
	07/16/08 15:20 CST		0	Source: Trained Spotter
Also reports of trees down near La Valle.				
SHEBOYGAN COUNTY --- 2.0 NW HOWARDS GROVE [43.85, -87.85], 2.0 NE HOWARDS GROVE [43.85, -87.79], 2.0 SE HOWARDS GROVE [43.81, -87.79], 2.0 SW HOWARDS GROVE [43.81, -87.85]				
	07/16/08 15:30 CST		40K	Flash Flood (due to Heavy Rain)
	07/16/08 17:00 CST		0	Source: Newspaper
Heavy rains of 4 inches to over 5 inches affected the Howards Grove area during the mid and late afternoon hours as a line of strong to severe thunderstorms moved east through the area. The heavy rains triggered a flash flood that generated water depths of 1 to 3 feet on some streets. In addition, the middle school flooded, and damage to its gym floor amounted to at least \$30,000. Some basements flooded as well, with damage to contents.				
MILWAUKEE COUNTY --- 5.0 NW DOWNTOWN MILWAUKEE [43.08, -88.04]				
	07/16/08 15:32 CST		10K	Thunderstorm Wind (EG 56 kt)
	07/16/08 15:32 CST		0	Source: Fire Department/Rescue
Powerful thunderstorm winds toppled large trees, and broken tree branches brought down some power-lines.				
WAUKESHA COUNTY --- 2.0 W NEW BERLIN [42.98, -88.16]				
	07/16/08 15:37 CST		15K	Thunderstorm Wind (EG 65 kt)
	07/16/08 15:37 CST		0	Source: Amateur Radio
Powerful thunderstorm winds toppled numerous large trees, and broken tree branches brought down some power lines.				
SHEBOYGAN COUNTY --- CEDAR GROVE [43.57, -87.83]				
	07/16/08 15:46 CST		20K	Lightning
	07/16/08 15:46 CST		0	Source: Newspaper
A newspaper article noted that lightning struck a cabin somewhere in the Civil Town of Holland, and the resultant fire damaged the building. Cedar Grove was used only as a nearby reference point.				
A convective thunderstorm complex that originated over southern Minnesota moved east/southeast across southern Wisconsin and generated a line of strong to severe storms. Powerful thunderstorm winds gusting to hurricane-force, large hail, one tornado, and flash flooding were produced by the storms. Surface dewpoints were in the lower to mid 70s, and CAPE values were 3000 to 4000. Maximum afternoon temperatures were in the 85 to 90 range. At least 20,000 customers lost electrical power - 14,000 of them in Sheboygan County alone.				
IOWA COUNTY --- 3.0 ENE AVOCA [43.20, -90.47]				
	07/25/08 18:45 CST		0	Thunderstorm Wind (EG 52 kt)
	07/25/08 18:45 CST		0	Source: Post Office
Powerful thunderstorm winds toppled large trees.				
A few thunderstorms popped up during the period of peak heating in the afternoon, and one managed to pulse to severe limits and generate damaging winds.				
IOWA COUNTY --- DODGEVILLE [42.97, -90.13], MINERAL PT [42.85, -90.18]				
	07/31/08 10:45 CST		10K	Thunderstorm Wind (EG 56 kt)
	07/31/08 10:45 CST		0	Source: Law Enforcement
Powerful thunderstorm winds toppled large trees, and knocked down large tree branches that brought down some power-lines.				

Storm Data and Unusual Weather Phenomena - July 2008

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LAFAYETTE COUNTY --- 3.0 WNW BELMONT [42.75, -90.38], 4.0 E LAMONT [42.70, -89.90]				
	07/31/08 10:45 CST		0	Thunderstorm Wind (EG 56 kt)
	07/31/08 11:15 CST		0	Source: Law Enforcement
Powerful thunderstorm winds toppled large trees.				
GREEN COUNTY --- 1.0 NW MONROE [42.61, -89.64], BROADHEAD [42.62, -89.37]				
	07/31/08 11:33 CST		20K	Thunderstorm Wind (EG 56 kt)
	07/31/08 11:45 CST		0	Source: Law Enforcement
Powerful thunderstorm winds toppled large trees, and knocked down tree branches that brought down power-lines.				
ROCK COUNTY --- 2.0 NW NEWARK [42.57, -89.26], 1.0 ENE BELOIT [42.53, -89.01]				
	07/31/08 11:55 CST		15K	Thunderstorm Wind (EG 56 kt)
	07/31/08 12:10 CST		0	Source: Trained Spotter
Powerful thunderstorm winds toppled large trees, and knocked down tree branches that brought down power-lines.				
A convective thunderstorm complex originated in southern Minnesota, and moved southeast to the Chicago area. Powerful downburst winds were generated. The complex was associated with a short-wave trough aloft, and good warm-air advection at 850 mb. Air temperatures were in the lower to mid 80s and surface dewpoints were in the upper 60s to lower 70s.				